IFW16

RAW SEQUENCE LISTING                    DATE: 08/31/2004
PATENT APPLICATION:  US/09/660,302E    TIME: 13:58:37

Input Set : A:\pto.lm.txt
Output Set: N:\CRF4\08312004\I660302E.raw

```
 1 <110> APPLICANT: Universiteit Utrecht
 2        Strous, Gerardus
 3        Van Kerkhof, Petrus
 4        Govers, Roland
 6 <120> TITLE OF INVENTION: CONTROLLING AVAILABILITY OR ACTIVITY OF PROTEINS BY USE OF
PROTEASE
 7        INHIBITORS OR RECEPTOR FRAGMENTS
 9 <130> FILE REFERENCE: 2183-4525US
11 <140> CURRENT APPLICATION NUMBER: 09/660,302E
12 <141> CURRENT FILING DATE: 2000-09-12
14 <150> PRIOR APPLICATION NUMBER: PCT/NL99/00136
15 <151> PRIOR FILING DATE: 1999-03-12
17 <150> PRIOR APPLICATION NUMBER: EP98200799.9
18 <151> PRIOR FILING DATE: 1998-03-12
20 <160> NUMBER OF SEQ ID NOS: 51
22 <170> SOFTWARE: PatentIn version 3.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 8
26 <212> TYPE: PRT
27 <213> ORGANISM: Unknown
29 <220> FEATURE:
30 <221> NAME/KEY: BINDING
31 <222> LOCATION: (1)..(8)
32 <223> OTHER INFORMATION: synthetic peptide, Binding polypeptide motif
34 <220> FEATURE:
35 <221> NAME/KEY: UNSURE
36 <222> LOCATION: (1)..(1)
37 <223> OTHER INFORMATION: Xaa may be any amino acid
39 <220> FEATURE:
40 <221> NAME/KEY: UNSURE
41 <222> LOCATION: (5)..(5)
42 <223> OTHER INFORMATION: Xaa may be any amino acid
44 <220> FEATURE:
45 <221> NAME/KEY: UNSURE
46 <222> LOCATION: (6)..(6)
47 <223> OTHER INFORMATION: Xaa may be any amino acid
49 <220> FEATURE:
50 <221> NAME/KEY: UNSURE
51 <222> LOCATION: (8)..(8)
52 <223> OTHER INFORMATION: Xaa may be any amino acid
54 <400> SEQUENCE: 1
W--> 55 Xaa Glu Phe Ile Xaa Xaa Asp Xaa
56 1              5
58 <210> SEQ ID NO: 2
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   59 <211> LENGTH: 12
   60 <212> TYPE: PRT
   61 <213> ORGANISM: Unknown
   63 <220> FEATURE:
   64 <223> OTHER INFORMATION: Unsure, Growth hormone receptor binding motif, Binds to
hormone receptor
   65       and ubiquitin
   67 <400> SEQUENCE: 2
   68 Asp Asp Ser Trp Val Glu Phe Ile Glu Leu Asp Ile
   69 1               5                   10
   71 <210> SEQ ID NO: 3
   72 <211> LENGTH: 10
   73 <212> TYPE: PRT
   74 <213> ORGANISM: Unknown
   76 <220> FEATURE:
   77 <223> OTHER INFORMATION: Unsure, Growth hormone receptor motif, Binds to hormone
receptor and
   78       ubiquitin
   80 <400> SEQUENCE: 3
   81 Asp Ser Trp Val Glu Phe Ile Glu Leu Asp
   82 1               5                   10
   84 <210> SEQ ID NO: 4
   85 <211> LENGTH: 129
   86 <212> TYPE: PRT
   87 <213> ORGANISM: Unknown
   89 <220> FEATURE:
   90 <223> OTHER INFORMATION: Unsure, Growth hormone receptor motif, Up-regulates GH
activity
   92 <400> SEQUENCE: 4
   93 Ser Lys Gln Gln Arg Ile Lys Met Leu Ile Leu Pro Pro Val Pro Val
   94 1               5                   10                  15
   95 Pro Lys Ile Lys Gly Ile Asp Pro Asp Leu Leu Lys Glu Gly Lys Leu
   96         20                  25                  30
   97 Glu Glu Val Asn Thr Ile Leu Ala Ile His Asp Ser Tyr Lys Pro Glu
   98         35                  40                  45
   99 Phe His Ser Asp Asp Ser Trp Val Glu Phe Ile Glu Leu Asp Ile Asp
  100     50                  55                  60
  101 Glu Pro Asp Glu Lys Thr Glu Glu Ser Asp Thr Asp Leu Leu Ser Ser
  102 65                  70                  75                  80
  103 Asp His Glu Lys Ser His Ser Asn Leu Gly Val Lys Asp Gly Asp Ser
  104                 85                  90                  95
  105 Gly Arg Thr Ser Cys Cys Glu Pro Asp Ile Leu Glu Thr Asp Phe Asn
  106             100                 105                 110
  107 Ala Asn Asp Ile His Glu Gly Thr Ser Glu Val Ala Gln Pro Gln Arg
  108             115                 120                 125
  109 Leu
  111 <210> SEQ ID NO: 5
  112 <211> LENGTH: 38
  113 <212> TYPE: PRT
  114 <213> ORGANISM: Unknown
  116 <220> FEATURE:
  117 <223> OTHER INFORMATION: Unsure, Derived from protein receptor, Up-regulates GH
activity
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```
119 <400> SEQUENCE: 5
120 Lys Asp Gly Asp Ser Gly Arg Thr Ser Cys Cys Glu Pro Asp Ile Leu
121 1               5                   10                  15
122 Glu Thr Asp Phe Asn Ala Asn Phe Ile His Glu Gly Thr Ser Glu Val
123             20                  25                  30
124 Ala Gln Pro Gln Arg Leu
125         35
127 <210> SEQ ID NO: 6
128 <211> LENGTH: 10
129 <212> TYPE: PRT
130 <213> ORGANISM: Unknown
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Unsure, Glut4 Ins-regulated glucose transporter binding
motif, Binds to
134         ubiquitin/proteasome system binding site
136 <400> SEQUENCE: 6
137 Thr Glu Leu Glu Tyr Leu Gly Pro Asp Glu
138 1               5                   10
140 <210> SEQ ID NO: 7
141 <211> LENGTH: 7
142 <212> TYPE: PRT
143 <213> ORGANISM: Unknown
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Unsure, Binding poly-peptide motif, Binds to
ubiquitin/proteasome system
147         binding site
149 <400> SEQUENCE: 7
150 Cys Glu Glu Asp Phe Tyr Arg
151 1               5
153 <210> SEQ ID NO: 8
154 <211> LENGTH: 10
155 <212> TYPE: PRT
156 <213> ORGANISM: Homo sapiens (human) or Lepus unknown species (rabbit)
158 <220> FEATURE:
159 <223> OTHER INFORMATION: GHR sequence
161 <400> SEQUENCE: 8
162 Ser Trp Val Glu Phe Ile Glu Leu Asp Ile
163 1               5                   10
165 <210> SEQ ID NO: 9
166 <211> LENGTH: 10
167 <212> TYPE: PRT
168 <213> ORGANISM: Gallus gallus (chicken)
170 <220> FEATURE:
171 <223> OTHER INFORMATION: GHR
173 <400> SEQUENCE: 9
174 Leu Trp Val Glu Phe Ile Glu Leu Asp Ile
175 1               5                   10
177 <210> SEQ ID NO: 10
178 <211> LENGTH: 10
179 <212> TYPE: PRT
180 <213> ORGANISM: Homo sapiens (human)
```

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Input Set : A:\pto.lm.txt
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```
182 <220> FEATURE:
183 <223> OTHER INFORMATION: prolactin receptor
185 <400> SEQUENCE: 10
186 Leu Leu Val Glu Tyr Leu Glu Val Asp Asp
187 1               5               10
189 <210> SEQ ID NO: 11
190 <211> LENGTH: 10
191 <212> TYPE: PRT
192 <213> ORGANISM: Mus musculus (mouse), Lepus unknown species (rabbit), or Rattus
unknown
W--> 193 species (rat)
195 <220> FEATURE:
196 <223> OTHER INFORMATION: prolactin receptor
198 <400> SEQUENCE: 11
199 Leu Leu Val Glu Phe Leu Glu Asn Asp Asp
200 1               5               10
202 <210> SEQ ID NO: 12
203 <211> LENGTH: 10
204 <212> TYPE: PRT
205 <213> ORGANISM: Unknown
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Unsure, vertebrate skeletal muscle
210 <400> SEQUENCE: 12
211 Asp Asn Val Asp Tyr Leu Thr Arg Asp Trp
212 1               5               10
214 <210> SEQ ID NO: 13
215 <211> LENGTH: 10
216 <212> TYPE: PRT
217 <213> ORGANISM: Unknown
219 <220> FEATURE:
220 <223> OTHER INFORMATION: Unsure, FGF Receptor Family
222 <400> SEQUENCE: 13
223 Gln Ala Ala Glu Tyr Leu Arg Ser Glu Thr
224 1               5               10
226 <210> SEQ ID NO: 14
227 <211> LENGTH: 10
228 <212> TYPE: PRT
229 <213> ORGANISM: Unknown
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Unsure, Transmembrane receptor sex precursor
234 <400> SEQUENCE: 14
235 Ile Asp Ala Glu Tyr Ile Ser Ala Glu Arg
236 1               5               10
238 <210> SEQ ID NO: 15
239 <211> LENGTH: 10
240 <212> TYPE: PRT
241 <213> ORGANISM: Unknown
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Unsure, IgE Receptor
246 <400> SEQUENCE: 15
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Input Set : **A:\pto.lm.txt**
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```
247 Leu Lys Gly Glu Phe Ile Trp Val Asp Gly
248 1               5                     10
250 <210> SEQ ID NO: 16
251 <211> LENGTH: 10
252 <212> TYPE: PRT
253 <213> ORGANISM: Unknown
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Unsure, ANGIOTENSIN CONVERTING ENZYME
258 <400> SEQUENCE: 16
259 Tyr Gly Ser Glu Tyr Ile Asn Leu Asp Gly
260 1               5                     10
262 <210> SEQ ID NO: 17
263 <211> LENGTH: 10
264 <212> TYPE: PRT
265 <213> ORGANISM: Unknown
267 <220> FEATURE:
268 <223> OTHER INFORMATION: Unsure, POTASSIUM CHANNEL IRK
270 <400> SEQUENCE: 17
271 Ser Glu Gly Glu Tyr Ile Pro Leu Asp Gln
272 1               5                     10
274 <210> SEQ ID NO: 18
275 <211> LENGTH: 10
276 <212> TYPE: PRT
277 <213> ORGANISM: Unknown
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Unsure, PDGF RECEPTOR ALPHA-CHAIN
282 <400> SEQUENCE: 18
283 Asp Gly His Glu Tyr Ile Tyr Val Asp Pro
284 1               5                     10
286 <210> SEQ ID NO: 19
287 <211> LENGTH: 10
288 <212> TYPE: PRT
289 <213> ORGANISM: Unknown
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Unsure, PDGF RECEPTOR BETA-CHAIN
294 <400> SEQUENCE: 19
295 Asp Gly His Glu Tyr Ile Tyr Val Asp Pro
296 1               5                     10
298 <210> SEQ ID NO: 20
299 <211> LENGTH: 10
300 <212> TYPE: PRT
301 <213> ORGANISM: Homo sapiens (human), Lepus unknown species (rabbit), or Rattus
unknown
```
**W--> 302 species (rat)**
```
304 <220> FEATURE:
305 <223> OTHER INFORMATION: Ca++ -channel
307 <400> SEQUENCE: 20
308 Asp Asn Phe Glu Tyr Leu Thr Arg Asp Ser
309 1               5                     10
311 <210> SEQ ID NO: 21
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RAW SEQUENCE LISTING ERROR SUMMARY     DATE: 08/31/2004
PATENT APPLICATION:  US/09/660,302E     TIME: 13:58:38

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**Please Note:**
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,5,6,8
Seq#:50; Xaa Pos. 4

**Invalid Line Length:**
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:2; Line(s) 64
Seq#:7; Line(s) 146

**VERIFICATION SUMMARY**                    DATE: 08/31/2004
PATENT APPLICATION:  **US/09/660,302E**        TIME: 13:58:38

Input Set  : **A:\pto.lm.txt**
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L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:193 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
L:302 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0